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(54) Title: HYDROPHOBIC MATERIAL

(57) Abstract: The present invention provides a method of forming a modified gel capable of forming a hydrophobic surface on which water has a contact angle of at least 150°. The invention also provides a method of forming a hydrophobic coating from the modified gel. In some embodiments, the hydrophobic coating has an extremely high hydrophobicity with a contact angle in excess of 165°, and good substrate adhesion. The method involves bonding a gel with particulate matter. It is believed that the chemical hydrophobicity of the gel is enhanced by the physical roughness of the particulate matter.

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